

Title (en)
Belt conveyor arrangement.

Title (de)
Förderbandeinrichtung.

Title (fr)
Aménagement de convoyeur à bande.

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Application
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Abstract (en)
A continuous belt (14) has upper and lower runs (14a, 14b) and lower runs (23a, 23b) of continuous ropes (23) carried and driven by end rollers (12, 13) and intermediate wheels (22). To allow the lower run (14b) of the belt to be supported by the lower run (23b) of the ropes, the lower run of the belt is laterally diverted from below the lower run (23b) of the ropes and re-diverted back onto the lower run of the ropes by rollers (30) in the region of one end roller (12). The lower run of the belt is again diverted laterally and re-diverted below the lower run (23b) of the ropes adjacent the other end roller (13). In another embodiment, the belt (114) is twisted whilst the lower run of the ropes (123) is vertically diverted to allow space for the twisting of the lower run of the belt below the upper run of the belt, so that lateral movement of the belt beyond the normal confines of the conveyor arrangement is avoided.

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B65G 17/02

IPC 8 full level
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Citation (search report)
• [Y] DE 3123147 A1 19821230 - CLOUTH GUMMIWERKE AG [DE]
• [Y] US 2582881 A 19520115 - GILBERT MITCHELL FREDERICK
• [A] GB 737583 A 19550928 - MINING ENGINEERING CO LTD
• [A] GB 743561 A 19560118 - MINING ENGINEERING CO LTD

Cited by
CN104428221A; DE3531069C1; AU2013277574B2; US8905227B2; WO2013191957A1

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